version showing the changes made by the present amendment.

Kindly amend the above-identified application as set forth below:

In the Claims:

Please amend claims 1, 5, 23 and 31 and cancel claim 10 as follows:

1. (Amended) A process for the simultaneous production of xylitol and ethanol from a hydrolyzed lignocellulose-containing material, comprising

providing a starting material of hydrolyzed lignocellulose-containing material, having a ratio of glucose/xylose, wherein the ratio of glucose/xylose is between about .25 to about 8, and glucose content is greater than about 10% of carbohydrates in the starting material;

fermenting said starting material with a yeast strain which is capable of converting free xylose to xylitol and free hexose present to ethanol to form a fermented product comprising xylitol, ethanol and yeast, wherein during fermentation over about 50% of the xylose in the starting material is converted to xylitol and over about 40% of the glucose in the starting material is converted to ethanol;

recovering the resulting ethanol by distillation; and recovering xylitol by chromatographic separation from a bottom product of distillation.

5. (Amended) The process according to Claim 1, further comprising crystallizing pure xylitol.

23. (Amended) A process for the simultaneous production of xylitol and ethanol from a hydrolyzed lignocellulose-containing material, wherein the lignocellulose-containing material is selected from the group consisting of softwood, birch, beech, poplar, alder, plants, plant constituents, straw, hulls of wheat, corn, oat, barley, corn cobs; corn stems, nutshells, bagasse, cottonseed bran, wood chips, sawdust, sulphite spent liquor from woodpulp processing, waste from paper processing, waste from woodpulp processing, comprising:

providing a starting material of the hydrolyzed lignocellulose-containing material, having a ratio of glucose xylose, wherein the ratio of glucose/xylose is between about .25 to about 8 and wherein glucose content is greater than about 10% of carbohydrates in the starting material;

fermenting said starting material to produce a fermented solution with a yeast capable of converting free xylose present to xylitol and free hexose present to ethanol, said yeast selected from the group consisting of a yeast of the genera *Candida*, *Pichia*, *Pachysolen*, and *Debaryomyces*, said fermenting comprising reducing said free xylose to xylitol and reducing said hexose to ethanol, and said fermented solution comprising xylitol, ethanol, and spent yeast; wherein during fermentation over about 50% of the xylose in the starting material is converted to xylitol and over about 40% of the glucose in the starting material is converted to ethanol;

separating a substantial portion of said spent yeast from said fermented solution to produce a substantially clarified solution comprising ethanol and xylitol, said clarified solution comprising substantially less spent yeast by weight on a dry solids (substance) basis than said spent yeast in said fermented solution, and said separating

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comprising at least one separating method selected from group consisting of filtration, centrifugation and decanting;

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recovering ethanol by distillation;
recovering xylitol by chromatographic separation; and
crystallizing said xylitol to produce xylitol crystals.

31. (Amended) A process for the simultaneous production of xylitol and ethanol from a starting material of lignocellulose-containing material, comprising:

partially hydrolyzing said lignocellulose-containing material and subjecting said material to extraction to produce a prehydrolysate; wherein the prehydrolysate obtained from the extraction is fermented to convert xylose to xylitol, which is separated chromatographically and crystallized; wherein a final hydrolysis is carried out on the extracted material resulting in a hydrolysis product having a ratio of glucose/xylose, wherein the ratio of glucose/xylose is between about 25 to about 8 and wherein glucose content is greater than about 10% of carbohydrates in the starting material; the hydrolysis product being fermented to convert hexoses to ethanol, followed by recovery of the ethanol by distillation; wherein during fermentation over about 50% of the xylose in the hydrolysis product is converted to xylitol and over about 40% of the glucose in the hydrolysis product is converted to ethanol.

REMARKS

Reconsideration of the subject patent application is respectfully requested in view of the preceding amendments and accompanying remarks.